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NEWS 5 FEB 22 The IPC thesaurus added to additional patent databases on STN
NEWS 6 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 7 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 8 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes
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NEWS 10 MAR 22 EMBASE is now updated on a daily basis
NEWS 11 APR 03 New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 12 APR 03 Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
NEWS 13 APR 04 STN AnaVist \$500 visualization usage credit offered
NEWS 14 APR 12 LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS 15 APR 12 Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS 16 APR 12 Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected
NEWS 17 MAY 10 CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 18 MAY 11 KOREPAT updates resume

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FILE 'HOME' ENTERED AT 15:22:28 ON 14 MAY 2006

=> s panthenol and (contact lens?)

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=> S panthenol and (contact lens?)
L1 86 PANTHENOL AND (CONTACT LENS?)

=> s 11 and (cormoglycin? or edamastine or azelastine or nedrocromil)
L2 5 L1 AND (CORMOGLYCIN? OR EDAMASTINE OR AZELASTINE OR NEDROCROMIL
)

=> s 12 and (PVP or PVA or HPMC or HPC or carbomere or dextrane)
L3 0 L2 AND (PVP OR PVA OR HPMC OR HPC OR CARBOMERE OR DEXTRANE)

=> s 11 and (PVP or PVA or HPMC or HPC or carbomere or dextrane)
L4 23 L1 AND (PVP OR PVA OR HPMC OR HPC OR CARBOMERE OR DEXTRANE)

=> d 12 1-5 ibib abs

L2 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:791880 CAPLUS
DOCUMENT NUMBER: 135:348877
TITLE: Cooling agents containing caffeine derivatives for pharmaceutical composition
INVENTOR(S): Matsushima, Hiroaki; Okumura, Shigetoshi; Morioka, Shigeo
PATENT ASSIGNEE(S): Rohto Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001302545	A2	20011031	JP 2001-39116	20010215
PRIORITY APPLN. INFO.:			JP 2000-36557	A 20000215
OTHER SOURCE(S):	MARPAT 135:348877			

AB The invention relates to a method for refrigerating a composition, especially mucosal pharmaceutical composition, without causing unwanted sensory, e.g. unwanted odor and irritation, wherein the composition contains caffeine, theophylline, diprophylline, theobromine, proxyphylline, pentoxyphylline, and/or related compound. An eye drop containing caffeine anhydride 3, tetrahydrozoline hydrochloride 0.5, neostigmine methylsulfate 0.05, pyridoxin hydrochloride 1, potassium aspartate 10, benzalconium chloride 0.1, boric acid 5, NaOH q.s., and water q.s. to 1000 mL was formulated.

L2 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:788822 CAPLUS
DOCUMENT NUMBER: 135:348876
TITLE: Method and agents for sensory improvement due to cooling agents
INVENTOR(S): Matsushima, Hiroaki; Okumura, Shigetoshi
PATENT ASSIGNEE(S): Rohto Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001302518	A2	20011031	JP 2001-39117	20010215
PRIORITY APPLN. INFO.:			JP 2000-36556	A 20000215
OTHER SOURCE(S):	MARPAT 135:348876			

AB The invention relates to a method for improving sensory, e.g. irritation, due to cooling agent, e.g. menthol, camphor, and borneol, etc., used in a

composition, especially a mucosal composition, wherein the method includes addition of caffeine, theophylline, diprophylline, theobromine, proxyphylline, pentoxifylline, and/or related compound in the composition. An eye drop containing

caffeine anhydride 1, 1-menthol 0.02, NaCl 0.8, KCl 0.15, polysorbate 80, sodium dihydrogen phosphate 0.2, sodium chondroitin sulfate 0.1, borax 0.16, benzalkonium chloride 0.004 g, and water and pH adjusting agent q.s. to 100 mL was formulated.

L2 ANSWER 3 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2004:45049 USPATFULL

TITLE: Preservative composition

INVENTOR(S):
Tsuiji, Masao, Osaka-shi, JAPAN
Seto, Tadashi, Osaka-shi, JAPAN
Mori, Yasuko, Osaka-shi, JAPAN
Kiyobayashi, Yuka, Osaka-shi, JAPAN
Koike, Tetsuo, Osaka-shi, JAPAN

NUMBER	KIND	DATE
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PATENT INFORMATION: US 2004034042 A1 20040219

APPLICATION INFO.: US 2003-421977 A1 20030423 (10)

NUMBER	DATE
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PRIORITY INFORMATION: JP 2002-236479 20020814

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARLENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: 16

EXEMPLARY CLAIM: 1

LINE COUNT: 2168

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides, as a composition that is highly safe and superior in preservative properties, comprising (a) a xanthine, (b) a buffer and (c) at least one member selected from sorbic acid, EDTA, and salts thereof. This composition has superior preservative properties so that it inhibits the generation and proliferation of microorganisms even when stored for a long period of time. Furthermore, the present invention provides a method for enhancing the preservative properties of sorbic acid, EDTA, and salts thereof, which are known to have preservative properties, and the preservative properties of compositions containing these ingredients, and provides a method for producing a composition with superior preservative effectiveness.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 4 OF 5 CA COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 135:348877 CA

TITLE: Cooling agents containing caffeine derivatives for pharmaceutical composition

INVENTOR(S): Matsushima, Hiroaki; Okumura, Shigetoshi; Morioka, Shigeo

PATENT ASSIGNEE(S): Rohto Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001302545	A2	20011031	JP 2001-39116	20010215
PRIORITY APPLN. INFO.:			JP 2000-36557	A 20000215
OTHER SOURCE(S):	MARPAT 135:348877			
AB	The invention relates to a method for refrigerating a composition, especially mucosal pharmaceutical composition, without causing unwanted sensory, e.g. unwanted odor and irritation, wherein the composition contains caffeine, theophylline, diprophylline, theobromine, proxyphylline, pentoxifylline, and/or related compound An eye drop containing caffeine anhydride 3, tetrahydrozoline hydrochloride 0.5, neostigmine methylsulfate 0.05, pyridoxin hydrochloride 1, potassium aspartate 10, benzalkonium chloride 0.1, boric acid 5, NaOH q.s., and water q.s. to 1000 mL was formulated.			

L2 ANSWER 5 OF 5 CA COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 135:348876 CA
 TITLE: Method and agents for sensory improvement due to cooling agents
 INVENTOR(S): Matsushima, Hiroaki; Okumura, Shigetoshi
 PATENT ASSIGNEE(S): Rohto Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001302518	A2	20011031	JP 2001-39117	20010215
PRIORITY APPLN. INFO.:			JP 2000-36556	A 20000215
OTHER SOURCE(S):	MARPAT 135:348876			
AB	The invention relates to a method for improving sensory, e.g. irritation, due to cooling agent, e.g. menthol, camphor, and borneol, etc., used in a composition, especially a mucosal composition, wherein the method includes addition of caffeine, theophylline, diprophylline, theobromine, proxyphylline, pentoxifylline, and/or related compound in the composition An eye drop containing caffeine anhydride 1, l-menthol 0.02, NaCl 0.8, KCl 0.15, polysorbate 80, sodium dihydrogen phosphate 0.2, sodium chondroitin sulfate 0.1, borax 0.16, benzalkonium chloride 0.004 g, and water and pH adjusting agent q.s. to 100 mL was formulated.			

=> d 14 1-23 ibib abs

L4 ANSWER 1 OF 23 USPATFULL on STN
 ACCESSION NUMBER: 2006:46469 USPATFULL
 TITLE: Associative thickeners for aqueous systems
 INVENTOR(S): Lai, John Ta-Yuan, Broadview Heights, OH, UNITED STATES
 Hsu, Shui-Jen Raymond, Westlake, OH, UNITED STATES
 Tamaraselv, Krishnan, Brecksville, OH, UNITED STATES

NUMBER	KIND	DATE
PATENT INFORMATION: US 2006039939	A1	20060223
APPLICATION INFO.: US 2005-206393	A1	20050818 (11)
NUMBER	DATE	
PRIORITY INFORMATION: US 2004-603448P	20040820 (60)	

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Legal Department, Noveon IP Holdings Corp., 9911 Brecksville Road, Cleveland, OH, 44141-3247, US
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 2908
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Thiocarbonate compounds which, in one embodiment, are utilized as a rheology modifier or associative thickener. The thiocarbonate compounds thicken or increase the viscosity of a composition, preferably an aqueous composition when used in an effective amount. In one preferred embodiment, the thiocarbonate compounds include at least one hydrophilic group containing repeat unit such as derived from acrylic acid, and at least one hydrophobic group to enhance association with other compounds and thus increase viscosity of a composition. Aqueous composition comprising a latex and thiocarbonate associative thickeners are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 2 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2005:150732 USPATFULL
TITLE: Hydrocolloids and process therefor
INVENTOR(S): Lepilleur, Carole A., Akron, OH, UNITED STATES
Fruscella, Jeffrey A., Mentor, OH, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005129643	A1	20050616
APPLICATION INFO.:	US 2004-14424	A1	20041216 (11)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2004-871472, filed on 19 Jun 2004, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	EP 2003-13933	20030620
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	NOVEON IP HOLDINGS CORP., 9911 BRECKSVILLE ROAD, CLEVELAND, OH, 44141-3247, US	
NUMBER OF CLAIMS:	26	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	4949	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a shampoo composition comprising a minced polygalactomannan hydrocolloid(s) in combination with a water soluble silicone compound.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2005:137486 USPATFULL
TITLE: Hydrocolloids and process therefor
INVENTOR(S): Utz, Ferdinand, Rosenheim, GERMANY, FEDERAL REPUBLIC OF Malek, Gabriel, Fellheim, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005118130	A1	20050602
APPLICATION INFO.:	US 2004-7151	A1	20041208 (11)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2004-871472, filed		

on 19 Jun 2004, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	EP 2003-13933	20030620
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	NOVEON IP HOLDINGS CORP., 9911 BRECKSVILLE ROAD, CLEVELAND, OH, 44141-3247, US	
NUMBER OF CLAIMS:	26	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	4701	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to substantially pure hydrocolloids and derivatives thereof, a novel method of making said hydrocolloids, compositions comprising said hydrocolloids, and using said hydrocolloids as a gelling and thickening agent for aqueous systems, for instance, in the area of food, fodder, cosmetic and pharmaceutical compositions. Typical hydrocolloids are selected from tamarid, fenugreek, cassia, locust bean, tara, and algal hydrocolloids such as carrageenan and alginates. The hydrocolloids obtainable by the method of the invention are colorless, odorless and tasteless and they exhibit improved performance properties such as viscosity properties as well as gel strength and break strength.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2005:123876 USPATFULL
TITLE: Preservative method
INVENTOR(S): Morishima, Kenji, Osaka, JAPAN
Hatano, Norihisa, Osaka, JAPAN
PATENT ASSIGNEE(S): SANTEN PHARMACEUTICAL CO., LTD., Osaka, JAPAN (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005106265	A1	20050519
APPLICATION INFO.:	US 2004-11206	A1	20041213 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2000-182624	20000619
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FRISHAUF, HOLTZ, GOODMAN & CHICK, PC, 767 THIRD AVENUE, 25TH FLOOR, NEW YORK, NY, 10017-2023, US	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
LINE COUNT:	215	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of preserving an aqueous liquid preparation comprising adding a preservative comprising boric acid and/or borax, ethylenediaminetetraacetic acid or a salt thereof and polyvinyl pyrrolidone, and optionally a cellulosic polymer to an aqueous liquid preparation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2005:88032 USPATFULL
TITLE: Hydrocolloids and process therefor

INVENTOR(S) : Utz, Ferdinand, Rosenheim, GERMANY, FEDERAL REPUBLIC OF
Malek, Gabriel, Fellheim, GERMANY, FEDERAL REPUBLIC OF
Lepilleur, Carole A., Akron, OH, UNITED STATES
Fruscella, Jeffrey A., Mentor, OH, UNITED STATES
Zellia, Joseph A., Barberton, OH, UNITED STATES
Rafferty, Denise W., Sagamore Hills, OH, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005075497	A1	20050407
APPLICATION INFO.:	US 2004-871472	A1	20040619 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	EP 2003-13933	20030620
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	NOVEON IP HOLDINGS CORP., 9911 BRECKSVILLE ROAD, CLEVELAND, OH, 44141-3247	
NUMBER OF CLAIMS:	90	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	4825	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to substantially pure hydrocolloids and derivatives thereof, a novel method of making said hydrocolloids, compositions comprising said hydrocolloids, and using said hydrocolloids as a gelling and thickening agent for aqueous systems, for instance, in the area of food, fodder, cosmetic and pharmaceutical compositions. Typical hydrocolloids are selected from tamarind, fenugreek, cassia, locust bean, tara and guar. The hydrocolloids obtainable by the method of the invention are colorless, odorless and tasteless and they exhibit improved performance properties such as viscosity properties as well as gel strength and break strength.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2004:306462 USPATFULL
TITLE: Multi-purpose polymers, methods and compositions
INVENTOR(S) : Tamaraselvay, Krishnan, Brecksville, OH, UNITED STATES
Greenslade, Charles T., Willoughby, OH, UNITED STATES
Schmucker-Castner, Julie F., Strongsville, OH, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004241130	A1	20041202
APPLICATION INFO.:	US 2004-795666	A1	20040308 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2003-646856, filed on 22 Aug 2003, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-410697P	20020913 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	NOVEON IP HOLDINGS CORP., 9911 BRECKSVILLE ROAD, CLEVELAND, OH, 44141-3247	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	4166	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are multi-purpose polymers that are the polymerization product of a monomer mixture comprising at least one amino-substituted vinyl monomer; at least one nonionic vinyl monomer; at least one associative vinyl monomer; at least one semihydrophobic vinyl surfactant monomer; and, optionally, comprising one or more hydroxy-substituted nonionic vinyl monomer, crosslinking monomer, chain transfer agent or polymeric stabilizer. These vinyl addition polymers have a combination of substituents, including amino substituents that provide cationic properties at low pH, hydrophobic substituents, hydrophobically modified polyoxyalkylene substituents, and hydrophilic polyoxyalkylene substituents. The polymers provide surprisingly beneficial Theological properties in acidic aqueous compositions, and are compatible with cationic materials. Additionally, this invention relates to the incorporation of a basic material after the addition of an acidic material to reduce the pH of the composition without negatively impacting the viscosity of the composition. The multi-purpose polymers are useful in a variety of products for personal care, health care, household care, institutional and industrial care, and industrial applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 23 USPATFULL on STN

ACCESSION NUMBER: 2004:203019 USPATFULL

TITLE: Prevention of indwelling device related infection: composition and methods

INVENTOR(S): Polaschegg, Hans-Dietrich, Kostenberg, AUSTRIA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004156908	A1	20040812
APPLICATION INFO.:	US 2004-769961	A1	20040202 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	EP 2003-2292	20030203
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Mark J. Pandiscio, Pandiscio & Pandiscio, P.C., 470 Totten Pond Road, Waltham, MA, 02451-1914	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	1033	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Catheters used for medical treatment, e.g., hemodialysis are filled with a locking solution, usually heparin between treatments. To prevent infections, antimicrobial or antibiotic substances have been used as locking solution alone or in combination with antithrombotic substances. It has been found that these locking solutions are rapidly washed out from the catheter tip. The invention describes a thixotropic gel that can be used as locking solution. Beneficial substances, e.g., antimicrobial or antibiotic substances can be added to the gel. A preferred antimicrobial substance is taurolidin alone or in combination with salicylic acid or one of its salts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 8 OF 23 USPATFULL on STN

ACCESSION NUMBER: 2004:152329 USPATFULL

TITLE: Antimicrobial compositions containing colloids of oligodynamic metals

INVENTOR(S) : Terry, Richard N., Conyers, GA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004116551	A1	20040617
APPLICATION INFO.:	US 2003-649595	A1	20030826 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-461846, filed on 15 Dec 1999, GRANTED, Pat. No. US 6716895		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-405936P	20020826 (60)
	US 2002-406343P	20020826 (60)
	US 2002-406384P	20020826 (60)
	US 2002-406496P	20020828 (60)
	US 2002-406497P	20020828 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: JOHN S. PRATT, ESQ, KILPATRICK STOCKTON, LLP, 1100 PEACHTREE STREET, SUITE 2800, ATLANTA, GA, 30309

NUMBER OF CLAIMS: 24

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Page(s)

LINE COUNT: 3507

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to antimicrobial compositions, methods for the production of these compositions, and use of these compositions with medical devices, such as catheters, and implants. The compositions of the present invention advantageously provide varying release kinetics for the active ions in the compositions due to the different water solubilities of the ions, allowing antimicrobial release profiles to be tailored for a given application and providing for sustained antimicrobial activity over time. More particularly, the invention relates to polymer compositions containing colloids comprised of salts of one or more oligodynamic metal, such as silver. The process of the invention includes mixing a solution of one or more oligodynamic metal salts with a polymer solution or dispersion and precipitating a colloid of the salts by addition of other salts to the solution which react with some or all of the first metal salts. The compositions can be incorporated into articles or can be employed as a coating on articles such as medical devices. Coatings may be on all or part of a surface.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 9 OF 23 USPATFULL on STN

ACCESSION NUMBER: 2004:69519 USPATFULL

TITLE: Multi-purpose polymers, methods and compositions
INVENTOR(S): Tamaraselvy, Krishnan, Brecksville, OH, UNITED STATES
Barker, Thomas A., Akron, OH, UNITED STATES
Mullee, James E., Garrettsville, OH, UNITED STATES
Greenslade, Charles T., Willoughby, OH, UNITED STATES
Schmucker-Castner, Julie F., Strongsville, OH, UNITED STATES
STATES
Filla, Deborah S., Twinsburg, OH, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004052746	A1	20040318
APPLICATION INFO.:	US 2003-646856	A1	20030822 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-410697P	20020913 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Noveon, Inc., Legal Department, 9911 Brecksville Road, Cleveland, OH, 44141-3247
NUMBER OF CLAIMS: 71
EXEMPLARY CLAIM: 1
LINE COUNT: 4095
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are multi-purpose polymers that are the polymerization product of a monomer mixture comprising at least one amino-substituted vinyl monomer; at least one nonionic vinyl monomer; at least one associative vinyl monomer; at least one semihydrophobic vinyl surfactant monomer; and, optionally, comprising one or more hydroxy-substituted nonionic vinyl monomer, crosslinking monomer, chain transfer agent or polymeric stabilizer. These vinyl addition polymers have a combination of substituents, including amino substituents that provide cationic properties at low pH, hydrophobic substituents, hydrophobically modified polyoxyalkylene substituents, and hydrophilic polyoxyalkylene substituents. The polymers provide surprisingly beneficial rheological properties in acidic aqueous compositions, and are compatible with cationic materials. The multi-purpose polymers are useful in a variety of products for personal care, health care, household care, institutional and industrial care, and industrial applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 10 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:282479 USPATFULL
TITLE: Silane copolymer compositions containing active agents
INVENTOR(S): Terry, Richard N., Conyers, GA, UNITED STATES
Walsh, Kevin, Atlanta, GA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003198821	A1	20031023
	US 7029755	B2	20060418
APPLICATION INFO.:	US 2003-449977	A1	20030530 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-568770, filed on 10 May 2000, GRANTED, Pat. No. US 6596401		
	Continuation-in-part of Ser. No. US 1998-189240, filed on 10 Nov 1998, GRANTED, Pat. No. US 6329488		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	JOHN S. PRATT, ESQ, KILPATRICK STOCKTON, LLP, 1100 PEACHTREE STREET, SUITE 2800, ATLANTA, GA, 30309		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1308		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is drawn to silane copolymers prepared from the reaction of one or more polyisocyanates with one or more lubricious polymers having at least two functional groups, which may be the same or different, that are reactive with an isocyanate functional group and with one or more organo-functional silanes having at least two functional groups, which may be the same or different, that are reactive with an isocyanate functional group and at least one functional group reactive with a silicone rubber substrate. The silane copolymers of the invention can be used as coatings that are elastic when dry, lubricious when wet, and resist wet abrasion. These copolymers are useful as coatings for polysiloxane (rubber) and other difficult to coat substrates, especially for medical devices, such as catheters. These silane copolymers can contain active agents such as antimicrobials, pharmaceuticals, herbicides, insecticides, algaecides, antifoulants, and

antifogging agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 11 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:276420 USPATFULL
TITLE: Compositions and methods of use of peptides in combination with biocides and/or germicides
INVENTOR(S): Kuhner, Carla H., Avondale, PA, UNITED STATES
Romesser, James A., Kennett Square, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003194445	A1	20031016
APPLICATION INFO.:	US 2001-5931	A1	20011112 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Patrick J. Farley, Ph.D., Woodcock Washburn LLP, One Liberty Place - 46th Floor, Philadelphia, PA, 19103		
NUMBER OF CLAIMS:	37		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2992		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Peptide compositions and methods for inhibiting and controlling the growth of microbes using peptides possessing antimicrobial activity are described. The composition comprises at least one antimicrobial peptide in combination with at least one biocide, germicide, preservative or antibiotic. The method comprises administering an amount of the peptide composition effective for the prevention, inhibition or termination of microbes in industrial and clinical settings.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 12 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:219341 USPATFULL
TITLE: Aseptics
INVENTOR(S): Morishima, Kenji, Osaka, JAPAN
Hatano, Norihisa, Osaka, JAPAN
PATENT ASSIGNEE(S): SANTEN PHARMACEUTICAL CO., LTD., OSAKA, JAPAN (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003152631	A1	20030814
APPLICATION INFO.:	US 2002-311444	A1	20021216 (10)
	WO 2001-JP5004		20010613

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2000-182624	20000619
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FRISHAUF, HOLTZ, GOODMAN & CHICK, PC, 767 THIRD AVENUE, 25TH FLOOR, NEW YORK, NY, 10017-2023	
NUMBER OF CLAIMS:	7	
EXEMPLARY CLAIM:	1	
LINE COUNT:	199	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An object of the present invention is to provide safe preservatives by combining components widely used as additives of aqueous liquids. Preferred preservatives are obtained by combining boric acid and/or borax, ethylenediaminetetraacetic acid or a salt thereof and polyvinyl pyrrolidone. Preservation effects can be enhanced by further combining

cellulosic polymers with the preservatives.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 13 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:197010 USPATFULL
TITLE: Silane copolymer compositions containing active agents
INVENTOR(S): Terry, Richard N., Conyers, GA, United States
Walsh, Kevin, Atlanta, GA, United States
PATENT ASSIGNEE(S): C. R. Bard Inc., Murray Hill, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6596401	B1	20030722
APPLICATION INFO.:	US 2000-568770		20000510 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-189240, filed on 10 Nov 1998, now patented, Pat. No. US 6329488		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Dawson, Robert		
ASSISTANT EXAMINER:	Robertson, Jeffrey B.		
LEGAL REPRESENTATIVE:	Kilpatrick Stockton LLP		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	7		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	1332		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is drawn to silane copolymers prepared from the reaction of one or more polyisocyanates with one or more lubricious polymers having at least two functional groups, which may be the same or different, that are reactive with an isocyanate functional group and with one or more organo-functional silanes having at least two functional groups, which may be the same or different, that are reactive with an isocyanate functional group and at least one functional group reactive with a silicone rubber substrate. The silane copolymers of the invention can be used as coatings that are elastic when dry, lubricious when wet, and resist wet abrasion. These copolymers are useful as coatings for polysiloxane (rubber) and other difficult to coat substrates, especially for medical devices, such as catheters. These silane copolymers can contain active agents such as antimicrobials, pharmaceuticals, herbicides, insecticides, algaecides, antifoulants, and antifogging agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 14 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2003:71960 USPATFULL
TITLE: Chemically-modified peptides, compositions, and methods of production and use
INVENTOR(S): Kuhner, Carla H., Avondale, PA, UNITED STATES
Romesser, James A., Kennett Square, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003050247	A1	20030313
	US 6858581	B2	20050222
APPLICATION INFO.:	US 2001-882781	A1	20010615 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-212441P	20000616 (60)
DOCUMENT TYPE:	Utility	

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Patrick J. Farley, Ph.D., WOODCOCK WASHBURN KURTZ,
MACKIEWICZ & NORRIS LLP, One Liberty Place - 46th
Floor, Philadelphia, PA, 19103
NUMBER OF CLAIMS: 31
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Page(s)
LINE COUNT: 3324
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compositions and methods for inhibiting and controlling the growth of
microbes are disclosed. The composition comprises at least one
chemically-modified peptide with antimicrobial activity and at least one
carrier. The method comprises of administering an amount, effective for
the prevention, inhibition and termination of microbial growth for
industrial, pharmaceutical, household and personal care use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 15 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2002:217220 USPATFULL
TITLE: Enzymatic cleaning compositions
INVENTOR(S): Bettoli, Jean-Luc Philippe, Brussels, BELGIUM
Joos, Conny Erna-Alice, Buggenhout, BELGIUM
PATENT ASSIGNEE(S): Procter & Gamble Company, Cincinnati, OH, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6440911	B1	20020827
	WO 9909126		19990225
APPLICATION INFO.:	US 2000-485649		20000317 (9)
	WO 1998-US11993		19980610
			20000317 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1997-870120	19970814
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Delcotto, Gregory	
LEGAL REPRESENTATIVE:	Cook, C. Brant, Zerby, K. W., Miller, Steve W.	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)	
LINE COUNT:	3753	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to cleaning compositions a mannanase and a
carbohydrase selected from cellulases, amylases, pectin degrading
enzymes and/or xyloglucanases. These compositions provide superior
cleaning performance, i.e. superior stain removal, dingy cleaning and
whiteness maintenance.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 16 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2002:164425 USPATFULL
TITLE: New cosmetic, personal care, cleaning agent, and
nutritional supplement compositions and methods of
making and using same
INVENTOR(S): Lee, Sean, Karlsruhe, GERMANY, FEDERAL REPUBLIC OF
Kessler, Susanna, Ergolding, GERMANY, FEDERAL REPUBLIC
OF
Forberich, Oliver, Oberursel, GERMANY, FEDERAL REPUBLIC

OF
Buchwar, Claire, Wiesbaden, GERMANY, FEDERAL REPUBLIC
OF
Greenspan, David C., Grainsville, FL, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002086039	A1	20020704
APPLICATION INFO.:	US 2001-818466	A1	20010327 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-192261P	20000327 (60)
	US 2000-197162P	20000414 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KRAMER LEVIN NAFTALIS & FRANKEL LLP, 919 THIRD AVENUE, NEW YORK, NY, 10022	
NUMBER OF CLAIMS:	134	
EXEMPLARY CLAIM:	1	
LINE COUNT:	4825	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention involves new cosmetic, personal care, cleaning agent, biocidal agent, functional food, and nutritional supplement compositions. These new compositions incorporate bioactive glass into cosmetics, personal care items, cleaning agents, biocidal agents, functional foods, and nutritional supplements. The present invention also involves methods of making and methods of using such compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 17 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2002:160310 USPATFULL
TITLE: Process for producing hard capsule
INVENTOR(S): Yamamoto, Taizo, Osaka, JAPAN
Nagata, Shunji, Ashiya, JAPAN
Matsuura, Seinosuke, Kyoto, JAPAN
PATENT ASSIGNEE(S): Shionogi Qualicaps Co., Ltd., Yamatokoriyama, JAPAN
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6413463	B1	20020702
	WO 2000025760		20000511
APPLICATION INFO.:	US 2000-582560		20000629 (9)
	WO 1999-JP5874		19991025
			20000629 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1998-308204	19981029
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Tentoni, Leo B.	
LEGAL REPRESENTATIVE:	Birch, Stewart, Kolasch & Birch, LLP	
NUMBER OF CLAIMS:	6	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	536	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of manufacturing hard capsules is characterized by comprising the steps of dispersing a water-soluble cellulose derivative in hot water and cooling the dispersion to effect dissolution of the

water-soluble cellulose derivative in the water, adding and dissolving a gelling agent in the water-soluble cellulose derivative solution to give a capsule-preparing solution, dipping a capsule-forming pin into the capsule-preparing solution at a predetermined temperature, then drawing out the pin and inducing gelation of the capsule-preparing solution adhering to the pin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 18 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2002:98924 USPATFULL
TITLE: Peptides, compositions and methods for the treatment of *b Burkholderia cepacia*
INVENTOR(S): Kuhner, Carla H., Avondale, PA, UNITED STATES
Romesser, James A., Kennett Square, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002051819	A1	20020502
APPLICATION INFO.:	US 2001-881954	A1	20010615 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-212440P	20000616 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	WOODCOCK WASHBURN KURTZ, MACKIEWICZ & NORRIS LLP, 46th Floor, One Liberty Place, Philadelphia, PA, 19103	

NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 8 Drawing Page(s)
LINE COUNT: 2739

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Peptides, compositions and methods for inhibiting and controlling the growth of *Burkholderia cepacia* are disclosed. The composition comprises a peptide mixture with antimicrobial activity against *Burkholderia cepacia* and at least one carrier. The method comprises delivering an amount, effective for the prevention, inhibition and termination of the growth of *Burkholderia cepacia* for industrial, pharmaceutical, household, and personal care use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 19 OF 23 USPATFULL on STN
ACCESSION NUMBER: 2001:147464 USPATFULL
TITLE: Modified polypeptides with high activity and reduced allergenicity
INVENTOR(S): Weisgerber, David J., Cincinnati, OH, United States
Rubingh, Donn N., Cincinnati, OH, United States
PATENT ASSIGNEE(S): The Procter & Gamble Co., Cincinnati, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6284246	B1	20010904
APPLICATION INFO.:	US 1997-903298		19970730 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Page, Thurman K.		
ASSISTANT EXAMINER:	Howard, S.		
LEGAL REPRESENTATIVE:	Murphy, Stephen T., Kendall, Dara M., Tsuneki, Fumiko		
NUMBER OF CLAIMS:	22		
EXEMPLARY CLAIM:	1		

LINE COUNT: 1080

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a modified polypeptide which has an enzymatic activity level of greater than about 70% of the parent polypeptide and an allergenic response level of less than about 33% of the parent polypeptide. Embodiments of the present invention relate to modified polypeptides with reduced allergenicity and high enzymatic activity comprising the formula:

A-B.sub.n

wherein A is an enzyme, and mixtures thereof; B is a twin polymer moiety, having a total molecular weight of from about 0.5 kilodaltons (KD) to about 40 KD, having the formula ##STR1##

conjugated to the enzyme; wherein R.sub.1 and R.sub.2 are essentially straight chain polymers, having a molecular weight ranging from about 0.25 KD to about 20 KD; wherein the ratio of the molecular weights of R.sub.1 and R.sub.2 is from about 1:10 to about 10:1; wherein X is a linking moiety which links the twin moiety to a single site on the enzyme; and n is the number of twin polymer moieties conjugated to the enzyme, and represents an integer from about 1 to about 15.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 20 OF 23 USPATFULL on STN

ACCESSION NUMBER: 2000:109335 USPATFULL

TITLE: Conjugation of polypeptides

INVENTOR(S): Bisgaard-Frantzen, Henrik, Bagsvaerd, Denmark

Olsen, Arne Agerlin, Virum, Denmark

Prento, Annette, Ballerup, Denmark

PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6106828		20000822
APPLICATION INFO.:	US 1998-123787		19980728 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1997-DK51, filed on 7 Feb 1997		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1996-154	19960215
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Stole, Einar	
LEGAL REPRESENTATIVE:	Zelson, Esq., Steve T., Green, Esq., Reza	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 3 Drawing Page(s)	
LINE COUNT:	1823	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides polypeptide conjugates with reduced allergenicity comprising a polymeric carrier molecule having two or more polypeptide molecules coupled thereto. The invention also provides methods for producing the conjugates, compositions comprising the conjugates, and the use of the conjugates in industrial applications, including personal care products and detergent compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 21 OF 23 USPATFULL on STN

ACCESSION NUMBER: 91:79775 USPATFULL
 TITLE: Novel mascara composition having very small particles
 INVENTOR(S): Robertson, Sharon R., Collierville, TN, United States
 PATENT ASSIGNEE(S): Edmundson, Robert J., Germantown, TN, United States
 Maybe Holding Co., Wilmington, DE, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5053221		19911001
APPLICATION INFO.:	US 1989-439967		19891120 (7)
DOCUMENT TYPE:		Utility	
FILE SEGMENT:		Granted	
PRIMARY EXAMINER:		Page, Thurman K.	
ASSISTANT EXAMINER:		Kulkosky, P.	
LEGAL REPRESENTATIVE:		Sherman and Shalloway	
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
LINE COUNT:	657		

AB A novel mascara composition is disclosed. The composition comprises: (a) an effective amount of water; (b) an effective amount of microsphere particles selected from the group consisting of silica beads, polymethylmethacrylate beads, and combinations thereof; and (c) an effective amount of a water dispersible, high molecular weight, amorphous anionic polyester polymer having an approximate molecular weight, MN, of about 14,000 to about 16,000 and a melt viscosity at 200° C. of about 2000 to about 42,000 poise as measured with a Sieglaff-McKelvey Capillary Rheometer, 100 sec.sup.-1 shear rate. The polyester polymer is added to the mascara composition as a water dispersion having a solids content of not more than about 40% by weight of the dispersion. Prepared mascara compositions contain silica beads polymethylmethacrylate beads and an effective amount of the emulsifier C12-C15 alcohols benzoate.

L4 ANSWER 22 OF 23 EPFULL COPYRIGHT 2006 EPO/FIZ KA on STN

ACCESSION NUMBER: 2001:68014 EPFULL
 ENTRY DATE PUBLICATION: 20060503
 UPDATE DATE PUBLICAT.: 20060503
 DATA UPDATE DATE: 20060503
 DATA UPDATE WEEK: 200618
 TITLE (ENGLISH): ASEPTICS
 TITLE (FRENCH): AGENTS ASEPTIQUES
 TITLE (GERMAN): ASEPTISCHE MITTEL
 INVENTOR(S): MORISHIMA, Kenji, Santen Pharmaceu. Co., Ltd.3-9-19, Shimoshinjo, HigashiyodogawaOsaka-shiOsaka 533-8651, JP; HATANO, Norihisa, Santen Pharmaceu. Co., Ltd.3-9-19, Shimoshinjo, HigashiyodogawaOsaka-shiOsaka 533-8651, JP
 PATENT APPLICANT(S): SANTEN PHARMACEUTICAL CO., LTD., 9-19, Shimoshinjo 3-chome, Higashiyodogawa-ku,Osaka-shi,Osaka 533-8651, JP
 PATENT APPL. NUMBER: 208552
 AGENT: Peaucelle, Chantal, et al, Cabinet Armengaud Aine 3, Avenue Bugeaud, 75116 Paris, FR
 AGENT NUMBER: 17723
 DOCUMENT TYPE: Patent
 LANGUAGE OF FILING: Japanese
 LANGUAGE OF PUBL.: English
 LANGUAGE OF PROCEDURE: English
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: EPB1 Granted patent

PATENT INFORMATION:

PATENT INFORMATION:

	NUMBER	KIND	DATE
	NUMBER	KIND	DATE
DESIGNATED STATES:	EP 1312380	B1	20060503
APPLICATION INFO.:	WO 2001097852		20011227
PRIORITY INFO.:	AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR		
CITED NON PATENT LIT.:	EP 2001-938626	A	20010613
CITED PATENT LIT.:	WO 2001-JP5004	A	20010613
	JP 2000-182624	A	20000619
	DATABASE EPODOC [Online] EUROPEAN PATENT OFFICE, THE HAGUE, NL; XP002242055 & CN 1 185 953 A (LIU WEIZHONG) 1 July 1998 (1998-07-01)		
	EP 358447	A	
	EP 213514	A2	
	WO 9318764	A	
	JP 1294620	A	
	US 5591426	A	
	US 5663170	A	

L4 ANSWER 23 OF 23 EPFULL COPYRIGHT 2006 EPO/FIZ KA on STN

ACCESSION NUMBER: 1999:91337 EPFULL
 UPDATE DATE PUBLICAT.: 20060215
 DATA UPDATE DATE: 20060104
 DATA UPDATE WEEK: 200601
 TITLE (ENGLISH): PROCESS FOR PRODUCING HARD CAPSULE
 TITLE (FRENCH): PROCEDE DE FABRICATION D'UNE CAPSULE DURE
 TITLE (GERMAN): VERFAHREN ZUM HERSTELLEN VON HARTKAPSELN
 INVENTOR(S): YAMAMOTO, Taizo, 20-30, Sekime 1-chome Jyoto-ku,
 Osaka-shi Osaka 536-0008, JP; NAGATA, Shunji, 11-4,
 Hamakazecho 6-ban, Ashiya-shi Hyogo 659-0032, JP;
 MATSUURA, Seinosuke, 22-10, Sakuragaoka 4-chome
 Seika-cho, Souraku-gun Kyoto 619-0232, JP
 Shionogi Qualicaps Co., Ltd., 321-5, Ikezawa-cho,
 Yamatokoriyama-shi, Nara 639-1032, JP
 1696645
 PATENT APPLICANT(S):
 AGENT: Stoner, Gerard Patrick, et al, Mewburn Ellis LLP York
 House 23 Kingsway, London WC2B 6HP, GB
 AGENT NUMBER: 59901
 DOCUMENT TYPE: Patent
 LANGUAGE OF FILING: Japanese
 LANGUAGE OF PUBL.: English
 LANGUAGE OF PROCEDURE: English
 LANGUAGE OF TITLE: German; English; French
 PATENT INFO TYPE: EPAL Application published with search report
 PATENT INFORMATION:
 PATENT INFORMATION:

	NUMBER	KIND	DATE
	NUMBER	KIND	DATE
DESIGNATED STATES:	EP 1044682	A1	20001018
APPLICATION INFO.:	WO 2000025760		20000511
PRIORITY INFO.:	DE ES FR GB IT		
	EP 1999-949395	A	19991025
	WO 1999-JP5874	A	19991025
	JP 1998-308204	A	19981029

ABEN

A method of manufacturing hard capsules is characterized by comprising the steps of dispersing a water-soluble cellulose derivative in hot water and cooling the dispersion to effect dissolution of the water-soluble cellulose derivative in the water, adding and dissolving a gelling agent in the water-soluble cellulose derivative solution to give a capsule-preparing solution, dipping a capsule-forming pin into the capsule-preparing solution at a predetermined temperature, then drawing out the pin and inducing gelation of the capsule-preparing solution adhering to the pin.

(image, 0.1, abstract drawing)

No.	material or substance name	mol. formula	CAS Registry no.	mol. weight	sp. gravity	b.p. (°C)	m.p. (°C)
4923	pantothenol	C ₉ H ₁ gNO ₄	81-13-0	205.29			